Customer No.: 31561 Application No.: 10/709,430 P. 04/13

Docket No.: 12898-US-PA

AMENDMENTS

To the Claims:

1. (currently amended) An inkjet printer identification circuit, for providing a content

stored in an inkjet print head for an inkjet printer, said inkjet print head disposed inside

said inkjet printer, comprising:

a plurality of control lines;

a control circuit, providing a control signal to said plurality of control lines; and

an identification module, including a plurality of identification units, wherein

each of said plurality of identification units comprises at least a control input terminal, an

output terminal and a plurality of data input terminals, said plurality of data input

terminals is coupled to a corresponding one of a plurality of memory units respectively,

said control input terminal is coupled to corresponding one of said plurality of control

lines, said identification units are responsive to said control signals received from said

plurality of control lines for determining and outputting the content stored in at least one

of said plurality of memory units via said output terminal. an identification unit, said

identification unit including at least a control input terminal, an output terminal and at

least a data input terminal, said-data-input terminal-being-coupled to a memory-unit-for

receiving a content stored in said memory unit, said control input terminal being coupled

to one of said plurality of control lines, said identification unit-responsive to said control

signal-for-determining and outputting the content stored in said-memory unit via-said

output terminal.

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2. (currently amended) The circuit of claim 1, wherein each of said memory [[unit]]units

includes a fuse.

3. (currently amended) The circuit of claim 1, wherein each of said memory [[unit]]units

includes a low-power resistor.

4-5. (cancelled)

6. (currently amended) The circuit of claim [[5]]1, wherein each of said plurality of

identification units comprises:

a plurality of AND gates, each of said plurality of AND gates including a plurality

of AND gate input terminals and an AND gate output terminal, at least one of said

plurality of AND gate input terminals being coupled to one of said plurality of data input

terminals, the other said plurality of AND gate input terminals being coupled to said

control input terminal; and

a NOR gate, including a plurality of NOR gate input terminals and a NOR gate

output terminal, each of said plurality of AND gate output terminals being coupled to one

of said plurality of NOR gate input terminals, said NOR gate output terminal being said

output terminal of said identification unit.

7. (original) The circuit of claim 1, wherein said identification module is electrically

coupled to said control circuit via a transmission line.

8. (original) The circuit of claim 1, wherein said plurality of control lines is power supply

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lines.

9. (original) The circuit of claim 1, wherein said plurality of control lines is address lines.

10. (currently amended) An inkjet printer identification module, for providing a content

stored in an inkjet print head for an inkjet printer, said inkjet print head disposed inside

said inkjet printer, comprising:

a plurality of identification units.

wherein each of said plurality of identification units includes at least a control input

terminal, an output terminal and a plurality of data input terminals, said plurality of data

input terminal is coupled to a corresponding one of a plurality of memory unit

respectively, said control input terminal is coupled to corresponding one of a plurality of

control lines, said identification units are responsive to said control signals received from

said plurality of control lines for determining and outputting a content stored in at least

one of said plurality of memory units via said output terminal.

an-identification-unit, said-identification unit-including-at-least-a control input

terminal, an output terminal and at least a data input terminal, said data input terminal

being coupled to a memory unit for receiving a content stored in said memory unit, said

control input terminal receives said control signal from said inkjet printer, said

identification unit-responsive to said-control signal for determining and outputting a

content stored in said memory unit via said output terminal

11. (currently amended) The inkjet printer identification module of claim 10, wherein

each_of_said memory [[units]]units includes a fuse.

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12. (currently amended) The inkjet printer identification module of claim 10, wherein

each of said memory [[unit]]units includes a low-power resistor.

13-14. (canceled)

15. (currently amended) The inkjet printer identification module of claim [[14]]10,

wherein each of said plurality of identification units includes:

a plurality of AND gates, each of said plurality of AND gates including a plurality of

AND gate input terminals and an AND gate output terminal, at least one of said plurality

of AND gate input terminals being coupled to one of said plurality of data input terminals,

the other said plurality of AND gate input terminals being coupled to said control input

terminal; and

a NOR gate, including a plurality of NOR gate input terminals and a NOR gate

output terminal, each of said plurality of AND gate output terminals being coupled to one

of said plurality of NOR gate input terminals, said NOR gate output terminal being said

output terminal of said identification unit.

16. (currently amended) An inkjet printer identification method comprising:

using at least one control signal provided to an identification unit to read a content

stored in at least a memory unit, wherein said memory unit is read via said identification

unit based on an arrangement of a signal level of said control signal, wherein said control

signal is logically operated with said content to obtain an output signal,

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wherein said identification unit includes at least a control input terminal, an output

terminal and at least a data input terminal, said data input terminal is coupled to said

memory unit, said control input terminal is coupled to one of said plurality of control

lines, said identification unit is responsive to said control signal for determining and

outputting a content stored in said memory unit via said output terminal.

wherein said identification unit includes:

a plurality of AND gates, each of said plurality of AND gates including a plurality of

AND gate input terminals and an AND gate output terminal, one of said plurality of AND

gate input terminals being coupled to one of said plurality of data input terminals, the

other said plurality of AND gate input terminals being coupled to said control input

terminal; and

a NOR gate, including a plurality of NOR gate input terminals and a NOR gate

output terminal, each of said plurality of AND gate output terminals being coupled to one

of said plurality of NOR gate input terminals, said NOR gate output terminal being said

output terminal of said identification unit.

17. (original) The method of claim 16, wherein the step of reading said memory unit

includes reading said content stored in said memory unit via an address line.

18. (original) The method of claim 16, wherein the step of reading said memory unit

includes reading said content stored in said memory unit via a power supply line.

19. (original) The method of claim 16, wherein said content at least includes one of an ink

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cartridge product number, a number of inkjet nozzle, a volume of ink, a manufacturing

date, a status of an ink cartridge, a type of an ink.

20. (original) The method of claim 16, wherein said memory unit includes a fuse.

21. (original) The method of claim 16, wherein said memory unit includes a low-power

resistor.

22-28. (canceled)

29. (new) An inkjet printer identification circuit, for providing a content stored in an

inkjet print head for an inkjet printer, said inkjet print head disposed inside said inkjet

printer, comprising:

a plurality of control lines;

a control circuit, providing a control signal to said plurality of control lines; and

an identification module, including an identification unit, said identification unit

including at least a control input terminal, an output terminal and at least a data input

terminal, said data input terminal being coupled to an output of a corresponding memory

unit for receiving a binary content stored in said memory unit, said content of said

memory unit being obtained by said identification unit via said data input terminal, said

memory unit being externally and electrically connected to said identification unit, said

control input terminal being coupled to one of said plurality of control lines, said

identification unit responsive to said control signal for determining and outputting a

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determined content based on the binary content stored in said memory unit via said output

terminal, wherein said determined content generated by said identification unit is

outputted from said output terminal.

30. (new) An inkjet printer identification module, for providing a content stored in an

inkjet print head for an inkjet printer, said inkjet print head disposed inside said inkjet

printer, comprising:

an identification unit, said identification unit including at least a control input

terminal, an output terminal and at least a data input terminal, said data input terminal

being coupled to an output of a corresponding memory unit for receiving a binary content

stored in said memory unit, said content of said memory unit being obtained by said

identification unit via said data input terminal, said memory unit being externally and

electrically connected to said identification unit, said control input terminal receives a

control signal from said inkjet printer, said identification unit responsive to said control

signal for determining and outputting a determined content based on said binary content

stored in said memory unit via said output terminal, wherein said determined content

generated by said identification unit is outputted from said output terminal.

31. (new) An inkjet printer identification method comprising:

using at least one control signal provided to an identification unit to read a content

stored in at least a memory unit, wherein said content of said memory unit is read from an

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output of said memory unit by said identification unit via a data input terminal based on

an arrangement of a signal level of said control signal, and said data input terminal is

electrically coupled between said memory unit and said identification unit, wherein said

control signal is logically operated with said content to obtain an output signal, and said

output signal is outputted from an output terminal of said identification unit.

32. (new) An inkjet printer identification method characterized in using a control signal

provided to an identification unit to read a content stored in one of a plurality of memory

units by said identification unit, wherein a content of one of said plurality of memory units

is read from an output of said one of said plurality of memory units and inputted into said

identification unit via a data input terminal based on an arrangement of signal level of said

control signal, and said data input terminal is electrically coupled between said one of said

plurality of memory units and said identification unit, wherein said control signal is

logically operated with said content to obtain an output signal, and said output signal is

outputted from an output terminal of said identification unit.